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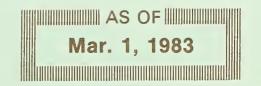
Water Supply Outlook For Idaho





Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES
NOAA, NATIONAL WEATHER SERVICE



TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Fresh powder snow on Elephant Mountain, near the West Fork of Hyalite Creek in Montana.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

Alaska Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504

Arizona Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025

Colorado (N. Mex.) P. O. Box 17107, Denver, Colorado 80217

Idaho Room 345, 304 N. 8th. St., Boise, Idaho 83702

Montana P. O. Box 98, Bozeman, Montana 59715

Nevada P. O. Box 4850, Reno, Nevada 89505

Oregon 1220 S. W. Third Ave., Portland, Oregon 97204

Utah 4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138

Washington 360 U. S. Court House, Spokane, Washington 99201

Wyoming P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR MARCH 1, 1983

The water supply outlook for the 1983 season is good to excellent for the Snake River and its tributaries upstream from the Salmon River; fair for the Clearwater and Palouse drainages, and good for the Spokane and Priest River drainages in Northern Idaho. Forecasts for April through September runoff range from a low of 90 percent on the Clearwater drainage in North Idaho to a high of 157 percent of average on the Little Wood drainage in South Central Idaho. The Owyhee Reservoir inflow in Eastern Oregon is forecast at 174 percent of normal.

Currently, snowpack conditions range from a low of 78 percent of average on the Clearwater drainage to a high of 175 percent of average on the Owyhee drainage with most basins on the Snake drainage ranging from 91 percent to 153 percent of normal. The Bear River basin in the southeastern part of the state is at 79 percent of normal.

The range of valley precipitation for stations in Idaho was from 48 percent of average at Grace to 207 percent of average at Ketchum with the state as a whole standing at 133 percent of average. For the water year, the Gem State has had 122 percent of normal precipitation. Temperatures remained mild again this month with averages from 5° F. to 8° F. above normal.

Reservoir carryover storages remain near to well above normal in most reservoirs and soil moisture conditions continue to be good to excellent throughout the state.

VALLEY PRECIPITATION $\underline{1}/$

Division Averages and Departures

In Inches

DRAINAGE		/inter . 1983	Fall - Winter Nov. 82 - Feb. 1983		
DIVISIONS	Observed	Departure <u>2</u> /	Observed	Departure <u>2</u> /	
Kootenai, Canada & U.S.	2.06	+ .11	10.80	85	
Flathead	1.13	61	7.65	- 1.55	
Clark Fork	1.16	11	5.58	- 1.20	
Pend Oreille-Spokane	3.60	+ .76	15.48	+ .46	
Upper Snake	2.01	+ .16	8.44	15	
Snake River Plain	1.25	+ .47	4.41	+ .11	
Salmon-Payette-Boise	2.95	+ 1.20	11.50	+ .44	
Clearwater	2.97	+ .10	11.62	- 3.30	
Owyhee-Malheur	1.20	+ .35	5.58	+ .76	

^{1/} Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

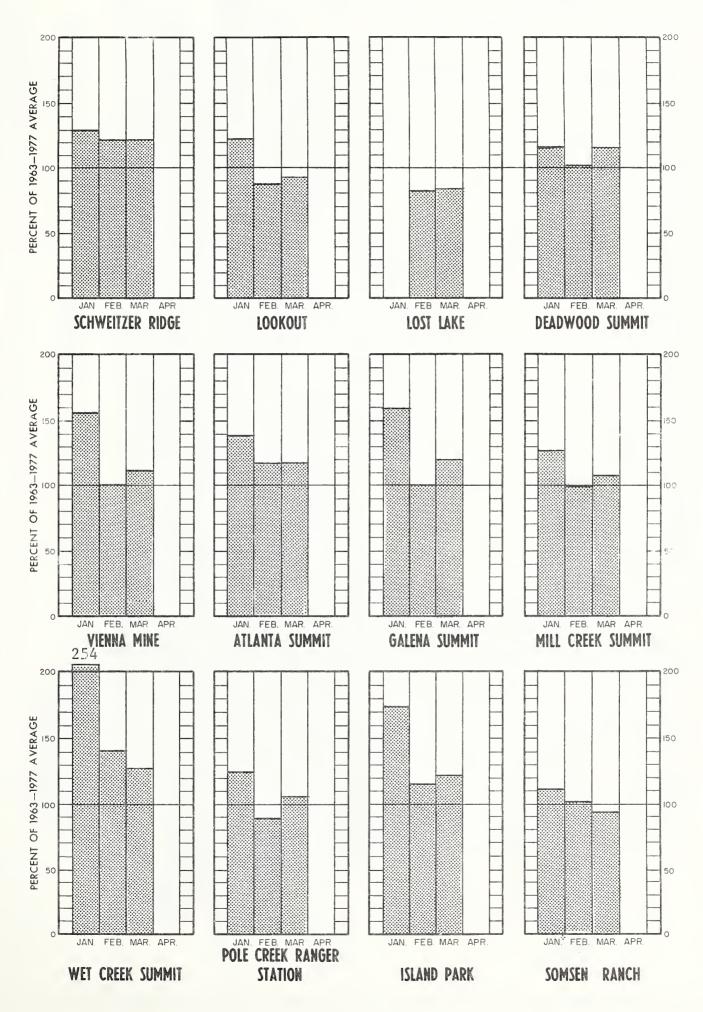
^{2/} Departure from 15-year (1963-1977) drainage division average.

SNOW WATER DEPTHS ACCUMULATION

For Selected Snow Courses

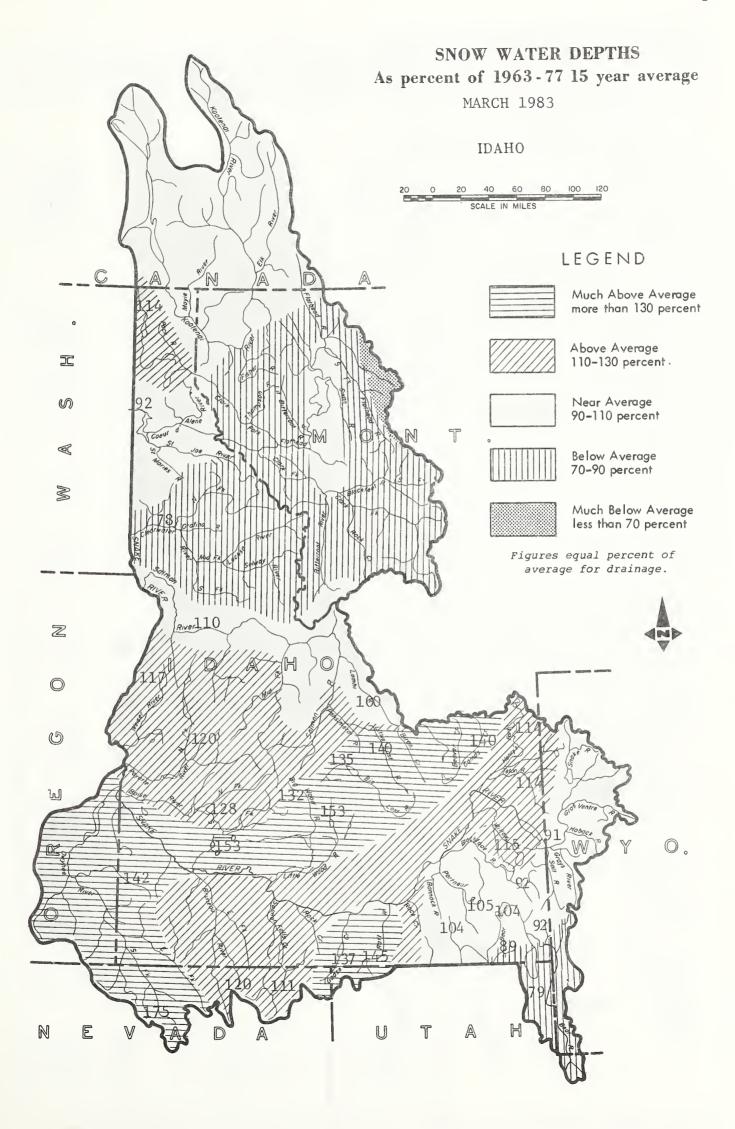
As Compared To 1963 — 1977 15 Year Average

MARCH 1, 1983



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO.OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF: LAST YEAR 1963-77 AVERAG		
UPPER COLUMBIA RIVER BASIN			-	
		0.4	0.0	
Kootenai River Pend Oreille River	45 137	84 7 8	89 83	
Clark Fork River	92	74	81	
Flathead River Priest River	45 6 – 7	84 104	85 114	
Spokane River	12 - 14	95	92	
Hayden Creek	4	80		
LOWER SNAKE RIVER BASIN				
Palouse River	3	74	80	
Clearwater River	15 - 17	75	78	
Salmon River	20 - 24	94	110	
Lemhi River	6	78	100	
MIDDLE SNAKE RIVER BASIN - Northside				
Little Lost River	5	126	140	
Big Lost River	8	140 159	138 153	
Fish Creek Little Wood River	2 4	159 155	153	
Big Wood River	11 - 12	107	132	
Boise River	17 - 20	105	128	
Canyon Creek	3	104	153	
Payette River	14 - 17	106	120	
Weiser River	2 - 4	110	117	
Mann Creek	1	131		
MIDDLE SNAKE RIVER BASIN - Southside				
Raft River	5 - 7	121	145	
Goose-Trapper Creek	3 - 5	114 90	137 111	
Salmon Falls Creek	10 - 11	90 88	120	
Bruneau River Owyhee River	6	121	175	
Jordan Creek	3	108	142	
UPPER SNAKE RIVER BASIN				
Snake Basin - Above Palisades Reservoir	31	73	91	
Camas-Beaver Creeks	2	155	140	
Henrys Fork River	11 9	98 85	114 114	
Teton River	5 - 9	85	115	
Willow Creek Blackfoot River	3 - 7	78	92	
Portneuf River	4 - 11	72	105	
GREAT BASIN				
Bear River - Upper	4	68	79	
Bear River - Lower	21	76	95 92	
Montpelier Creek	6 7	68 81	104	
Mink Creek Cub River	3 - 4	84	89	
Malad River	4 - 6	97	104	
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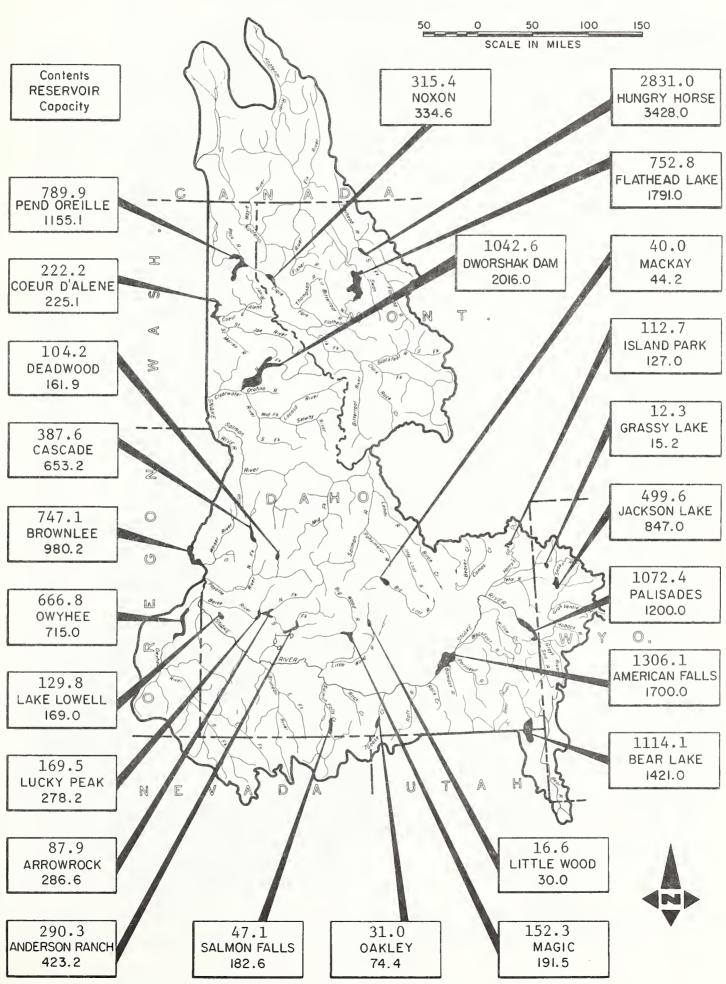
RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY		EASURED (First of Mo	T
		THIS YEAR	LAST YEAR	1963-77 AVERA
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2831.0	2327.0	2200.0
Flathead	1791.0	752.8	744.4	994.6
Pend Oreille Noxon	1155.1 334.6	789.9 315.4	805.5 310.9	376.0 299.1
Spokane				
Coeur d'Alene	225.1	222.2	433.1	121.6
SNAKE BASIN				
Snake				
Jackson Lake	624.4	499.6	517.9	615.6
Palisades	1200.0	1072.4	686.5	903.6
American Falls	1673.0	1306.1	1232.7 106.9	1241.9 114.6
Island Park Grassy Lake	127.0 15.2	112.7 12.3	12.8	10.6
Brownlee	980.2	747.1	905.4	465.2
Goose-Trapper Creeks				
0akley	74.4	31.0	29.0	29.3
Salmon Falls Creek				
Salmon Falls	182.6	47.1	23.7	55.5
Big Lost				
Mackay	44.2	40.0	27.5	32.4
Big Wood				
Magic	191.5	152.3	74.0	113.9
Little Wood				
Little Wood	30.0	16.6	16.6	17.8
Fish Creek				
Carey Valley	14.4	9.5	5.7	
Boise				
Anderson Ranch	423.2	290.3	264.3	256.5
Arrowrock Lucky Peak	286.6 278.2	87.9 169.5	215.0 115.2	251.4 87.1
Lucky reak Lake Lowell (Deer Flat)	169.0	129.8	107.4	132.6
<u>Owyhee</u>				
Owyhee	715.0	666.8	679.4	491.3
Payette				
Cascade	653.2	387.6	436.3	338.8 85.9
Deadwood	161.9	104.2	91.9	03.9
Weiser	15.1	0.1	9.4	
Mann Creek	11.1	8.4	9.4	
Clearwater				
Dworshak	2016.0	1042.6	865.9	
GREAT BASIN				
Bear				
Bear Lake	1421.0	1114.1	913.2	1030.6
*Period of Record.				

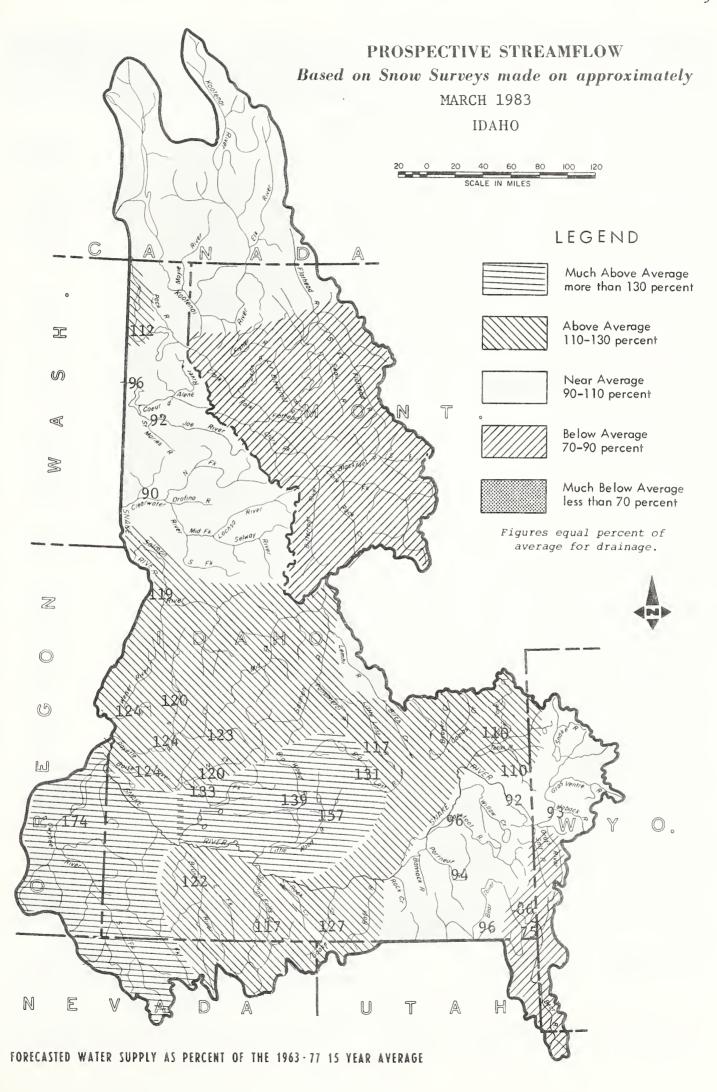
RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1983



STREAMFLOW FORECASTS		THIS YEA	R	PAST RECORD								
		FORE	CAST C	FORECAST	THOUSAND A	CRE FEET						
BASIN, STREAM and/or FORE	CAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +						
UPPER COLUMBIA BASIN												
KOOTENAI RIVER												
Leonia	(at)	8354	94	Apr-Sep		8858						
200120	()	7260	94	Apr-Jul		7708						
		5780	94	Apr-Jun		6144						
PEND OREILLE RIVER												
Clark Fork River												
Whitehorse Rapids	(at)	11100	81	Apr-Sep		13781						
		10100 8610	81 81	Apr-Jul Apr-Jun		12519 10633						
		8010	01	Apr-Juli		10055						
Priest River												
Priest River $1/$	(at)	1000	112	Apr-Sep		895 841						
		940	112	Apr-Ju1		041						
SPOKANE RIVER												
Post Falls 2/	(at)	2780	96	Apr-Sep		2910						
		2672	95	Apr-Jul		2802						
St. Joe River												
Calder	(at)	1210	92	Apr-Sep		1309						
		1148	93	Apr-Jul		1238						
		SNAKE RIVER BASI	ΙN									
												
SNAKE RIVER - MAIN STEM	4	0.50	0.4	Amus Com		903						
Moran 3/ Palisades Inflow 3/	(at)	850 3608	94 93	Apr-Sep Apr-Sep		3863						
Heise 4/	(nr)	3900	92	Apr-Sep		4247						
		3245	92	Apr-Jul		3527						
Blackfoot <u>5</u> /	(nr)	5380 4380	96 96	Apr-Sep Apr-Jul		5612 4579						
		4300	90	Api-3di		4377						
Henrys Fork												
Ashton 6/	(nr)	810	110	Apr-Sep Apr-Jul		737 547						
Rexburg 7/	(nr)	608 1687	111 110	Apr-Sep		1534						
Rexbuig 1/	(111)	1340	110	Apr-Jul		1202						
Teton	(ah)	221	110	Apr-Sep		201						
South Leigh Creek	(ab)	166	111	Apr-Jul		150						
				•								
Portneuf River		102	0.6	Mar-Con		108						
Topaz	(at)	102 83	94 94	Mar-Sep Mar-Jul		88						
Oakley Reservoir Inflow		39.5	127	Apr-Sep		31 28						
		36 45	128 125	Apr-Jul Mar-Sep		36						
		41	127	Mar-Jul		33						
Salmon Falls Creek	()	110	116	Mar-Sep		95						
San Jacinto	(nr)	105	117	Mar-Jul		90						
		99.5		Mar-Jun		85						
Bruneau River	(nr)	304	121	Mar-Sep		251						
Hot Springs	(111)	290	122	Mar-Jul		238						
Little Lost River	()	52.5	117	Apr-Sep		45						
Howe	(nr)	40	117	Apr-Jul		34						



STREAMFLOW FORECASTS			THIS YEAR		PAST RECORD		
		FORE	CAST C	FORECAST	THOUSAND A	CRE FEET	
BASIN, STREAM and/or FOR	ECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +	
Little Lost River (Continu	ued)						
Wet Creek	(b1)	48	117	Apr-Sop		4.1	
Not offer	(01)	39	117	Apr-Sep Apr-Jul		41	
		31	119	Apr-Jun		33 26	
				PI oun		20	
Big Lost River							
Howell Ranch	(at)	295	131	Apr-Sep		225	
		263	132	Apr-Jul		199	
		205	133	Apr-Jun		154	
Mackay <u>8</u> /	(nr)	268	131	Apr-Sep		204	
Big Wood River							
Magic Reservoir		443	139	Apr-Sep		319	
Inflow 9/		429	142	Apr-Jul		303	
_		470	142	Mar-Jul		332	
Tital 2 17c - 1 Dic.							
Little Wood River Carey 10/	(nr)	1/7	157	A C		105	
Carey <u>10</u> /	(nr)	167 155	156 157	Apr-Sep Apr-Jul		107	
		137	157	Apr-Jun		99 87	
		137	137	Apr oun		07	
Boise River							
Twin Springs	(nr)	880	120	Apr-Sep		733	
		812	120	Apr-Ju1		676	
Boise 11/	(nr)	2050	124	Apr-Sep		1656	
	(/	1900	124	Apr-Jul		1536	
		1686	124	Apr-Jun		1360	
G .1 P 1							
South Fork Anderson Dam 12/	(at)	823	133	A C		(22	
Anderson Dam 127	(at)	771	132	Apr-Sep Apr-Jul		622 582	
		771	132	API JUI		302	
Owyhee River							
Gold Cr., Nv 13/	(nr)	30	130	Apr-Jul		23	
Owyhee, Nv <u>13</u> / Lake Owyhee	(nr)	110	137	Apr-Jul		80	
net inflow 14/		683 818	174 160	Apr-Sep Mar-Jul		392 510	
net initiow 147		010	100	Hai-Jui		310	
Payette River							
Horseshoe Bend 15/	(nr)	2300	124	Apr-Sep		1860	
		2130	124	Apr-Ju1		1721	
North Fork							
Cascade 16/	(at)	676	120	Apr-Sep		564	
	, ,	634	120	Apr-Jul		529	
Banks <u>16</u> /	(nr)	871	121	Apr-Sep		726	
		831	121	Apr-Jul		687	
South Fork							
Lowman	(at)	634	123	Apr-Sep		516	
	, /	563	123	Apr-Jul		458	
Waisan Direct							
Weiser River Weiser	(nr)	513	124	Apr-Sep		442	
METSEL	(111)	692	124	Mar-Sep		558	
				1			
Salmon River						7.06	
Whitebird	(at)	8530	119	Apr-Sep		7196	
		7710	119	Apr-Jul		6497	
Clearwater River							
Spalding	(at)	9750	90	Apr-Sep		8672	

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD			
		FORE	CAST C	FORECAST	THOUSAND A	CRE FEET
BASIN, STREAM and/or F	FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average †
		GREAT BASIN				
BEAR RIVER Harer	(at)	248	75	Apr-Sep		332
Montpelier Creek Montpelier	(nr)	12	86	Apr-Sep		13.9
Cub River Preston	(nr)	48 44	96 94	Apr-Sep Apr-Jul		50 47

- $\underline{1}/$ Observed flow corrected for storage in Priest Lake.
- 2/ Observed flow corrected for storage in Coeur d'Alene Lake.
 3/ Corrected for storage in Jackson Lake.
 4/ Corrected for storage in Jackson Lake and Palisades.

- 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
- $\underline{6}/$ Corrected for storage in Henrys' Lake and Island Park Reservoir.
- 7/ Corrected for storage in Henrys' Lake and Island Park, Grassy Lake and diversions between Ashton and Rexburg.
- 8/ Observed flow corrected for storage in Mackay Reservoir.
- 9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
- $\overline{10}$ / Corrected for storage in Little Wood Reservoir.
- 11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
- 12/ Corrected for storage in Anderson Ranch Reservoir.
- 13/ Corrected for storage in Wildhorse Reservoir.
- 14/ From Bureau of Reclamation records of inflow.
- 15/ Corrected for storage in Cascade and Deadwood Reservoirs.
- 16/ Corrected for storage in Cascade Reservoir.
- Cooperative forecasts released by Soil Conservation Service and National Weather Service.

SNOW			(THIS YEAR		PAST RECORD		
	and or SNOW COURSE	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conte	Average	
NAME & DRA	AINAGE							
Above Burke	Coeur d'Alene	4100	2/28	40	15.4	18.1	22.9*	
Above Gilmore	Lemhi	8240	3/3 2/28	35	7.5	9.8	8.2	
Allen Ranch Antelope Ridge	Blackfoot Owyhee	6470 6180	2/28 2/24	35 28	9.3 9.0	11.5 10.8	 6.9*	
Aspen Grove	Willow	6500	3/3	51	17.0	16.6	10.7*	
Aspen Hall Pass	Lemhi	8200	3/3	35	8.2	11.8	8.5*	
Atlanta Summit	Boise	7600	2/28	112	36.9	38.3	31.2*	
Atlanta Townsite	Boise	5370	3/3	40	13.0	12.6		
Austin Bros. Ranch	Blackfoot	6400	2/28	30	8.1	10.0	8.3	
Bad Bear	Boise	4940	2/28	43	14.5	15.9	13.5	
Badger Gulch	Trapper	6660	3/6	36	16.2	16.6	10.7	
Banner Summit	Payette	7040	2/28	92	30.4	27.1		
Beagle Springs (Mt)	Beaverhead Little Salmon	8850 5350	2/26 2/28	31 72	7.0 22.6	 17.0		
Bear Basin Bear Canyon	Big Lost	7900	3/3	7 Z 87	22.6	16.8	15.9	
Bear Creek (Nv)	Jarbidge	8040	3/6	65	21.8	23.0	18.0*	
Bear Mountain	Clark Fork	5400	2/25	140	59.7	61.8	53.7*	
Bear Saddle	Mann Creek	6180	3/2	87	32.8	25.0		
Beaverdam Creek	Portneuf	6120	2/26	29	6.7	11.6		
Bennett Mountain	Canyon Creek	6560	2/26	62	20.4	19.4	15.0*	
Benton Meadow	Priest	2370	2/25	10	2.5	7.4	6.4	
Benton Spring	Priest	4920	2/25	53	19.3	15.8	17.7	
Big Creek Summit	Salmon	6580	2/24	108	36.7	40.2	31.6	
Big Springs	Henrys Fork	6400	2/25	60 27	19.4 8.4	20.2 13.7	18.7 10.7*	
Birch Creek Black Bear (Mt)	Willow Madison	6800 7950	3/3 2/24	103	39.7	13.7		
Black Canyon	Henrys Fork	7960	2/24	91	31.8	36.6	29.9*	
Black Moose	Henrys Fork	8160	2/24	106	40.4	40.2	36.1*	
Blue Ridge	Blackfoot	6780	3/3	59	21.5	24.3		
Bogus Basin	Payette	6340	2/28	90	31.0	22.5	20.7	
Bogus Basin Road	Boise	5540	2/28	29	9.5	7.6	5.8	
Bone	Willow	6200	3/3	26	7.4	8.6	7.4*	
Borah (A)	Pahsimeroi	8250	3/3	16	5.1	5.0		
Bostetter Ranger Sta.	Trapper	7500	3/6	52	21.2	23.8	17.1	
Boulder Creek	Weiser	5440	2/28	73	25.0	24.2	21.8	
Boy Scout Camp	Raft	7740	3/6 3/1	56 76	23.4 23.4	13.9 25.1	12.8	
Breezy Saddle Brockman Station	Clearwater Willow	5010 6430	3/3	32	10.3	13.6		
Brundage Mountain	Little Salmon	7560	2/28	107	40.1	51.0	40.6*	
Bruno Creek	Squaw Creek	7920	2/28	58	17.7	23.5		
Camas Creek Divide	Big Wood	5710	2/27	53	18.0	15.3	10.0*	
Camp Creek	Beaver	6580	3/1	52	14.0	8.1	9.8	
Cayuse Airstrip	Clearwater	3500	3/1	24	6.4	10.5	12.0	
Cedar Creek	Cedar	6820	3/4	24	6.1	9.2	9.3	
Chilco Ridge	Hayden	3650	2/24	5	1.8	5.6		
Chimney Creek	Big Wood	6400	2/26	61	21.4	16.9	7.9	
Christensen RAnch	Mink	5560 9420	2/23 3/6	32 84	9.2 26.8	9.5 23.0	19.1	
Clear Creek Meadows Cliff Canyon	Raft Malad	7200	2/23	52	19.2	10.0		
Conie Ridge	Hayden	3900	2/24	10	3.4	6.7		
Copes Camp	Lemhi	7520	3/3	27	6.4	9.2	6.6	
Copper Basin	Big Lost	7640	3/3	54	14.4	7.5	8.4	
Copper Ridge	Coeur d'Alene	4820	2/25	61	25.6	25.2	25.1	
Corner Creek	Hayden	3150	2/24	13	3.7	1.6		
Couch Summit	Boise	6840	2/26	72	23.4	18.4	16.9*	
Cozy Cove	Deadwood	5380	2/28	60	17.3	14.6	15.2*	
Crater Meadows	Clearwater	5960	3/1	9 7	30.4	39.0	38.9	
Crawford Ranger Sta.	Payette	4860	2/26	27	9.6	7.5	7.7 12.7*	
Crooked Fork	Lochsa	3610	3/1	30 28	9.8 8.3	13.5 8.4	8.4	
Cub River Ranger Sta.	Cub Malad	5450 6270	2/23 2/23	28	7.3	7.1		
Daniels Creek	Teton	8250	3/3	68	22.1	24.2	19.8*	
Darby Canyon (Wy) Deadline	Salmon Falls	7400	3/4	59	21.5	21.8	18.8	
Deadline South	Salmon Falls	7450	3/4	66	23.8	23.6		
Deadman Gulch	Boise	5600	2/23	62	20.5	19.2	14.7*	
Deadwood Airstrip	Deadwood	5360	2/28	62	17.4	14.1	14.4	
Dempsey Creek	Portneuf	6100	2/26	42	11.2	15.1	11.0	
Double Springs Pass	Pahsimeroi	8380	3/3	38	9.4	11.9	8.7*	
Dry Basin	Mink	7820	2/23	72	24.8	29.5	24.2*	
Dry Creek Flat	Malad	6360	2/23	27	8.3	9.3 15.2	7.4 14.6*	
Dry Fork	Big Lost	7220	3/7 2/26	54 37	$\substack{19.4\\10.1}$	18.0		
East Creek	Portneuf	7000 4130	2/26 2/24	37 19	6.7	11.8	10.8	
East Twin	Palouse	4130	2/24	1.7	0.,			

⁽b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average. (A) Aerial observation Water content estimated.

SNOW					THIS YEAR	,	PAST R	ECORD
DRAINAGE	BASIN	and or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conte	
NAME	& DR	AINAGE	Elevation	01 34.107	(()	(menes)	Last Year	Average
Elk Butte		Clearwater	5550	3/1	86	25.0	31.7	34.7
Emigrant Summit		Bear	7390	3/1	70	22.4	29.4	21.7
Emigration Canyon		Bear	6500	3/1	38	10.7	11.4	9.7
Fairview Guard Sta		Little Lost	6750	3/3	26	7.4	5.7	4.2
Fish Lake Airstrip		Lochsa	5650	3/1	86	25.0	36.3	36.3
Forty-nine Meadows		Clearwater	4830	3/1	71	22.0	23.8	27.2
Fourth of July Sum	nit	Coeur d'Alene	3200	2/28	17	5.4	6.4	8.9
ox Creek	(Nv)	Jarbidge	6750	3/4	36	11.6	12.5	9.7
ranklin Basin	()	Cub	8040	2/23	56	18.8	26.2	22.7
reds Mountain	(Wy)	Teton	8150	2/28	74	22.4	28.1	16.9
alena	("))	Big Wood	7440	2/28	71	20.6	22.6	17.0
alena (new)		Big Wood	7470	2/28	78	22.4		
alena (new) alena Summit		Big Wood	8780	2/28	83	24.8	26.9	
		-						20.6
arfield Ranger Sta	1.	Little Wood	6560	3/2	59	15.5	8.7	9.8
arns Mountain	(22.)	Teton	8300	3/3	95	35.9		27.4%
eorge Creek	(Ut)	Raft	8840	3/6	76	23.6	23.7	
eorge Peak	(Ut)	Raft	9000	3/6	88	32.5	31.8	
ibbons Pass	(Mt)	Bitterroot	7100	2/28	66	21.3	26.8	21.2
iveout		Montpelier	6860	3/2	37	9.7	14.9	11.1
oat Creek	(Nv)	Salmon Falls	8880	3/4	58	17.5	21.3	15.7
raham Guard Sta.		Boise	5690	2/28	54	17.2	17.9	
raham Ranch		Big Wood	6270	2/28	61	16.9	13.8	12.8
rassy Lake	(Wy)	Henrys Fork	7265	2/28	96	31.0	39.1	30.6
all Creek		Lemhi	7560	3/3	16	4.0	6.6	4.8
emlock Butte		Clearwater	5810	3/1	106	34.6	43.4	43.6
oodoo Basin	(Mt)	Clark Fork	6000	2/26	111	40.4	49.9	45.4
oodoo Creek	(Mt)	Clark Fork	5900	2/26	105	36.6	47.5	42.0
orseshoe Basin	(110)	Bear	8000	2/23	66	23.3	27.5	22.0
		Marsh Creek	7980	3/6	72	30.4		
owell Canyon							35.7	22.1
umboldt Gulch	67)	Coeur d'Alene	4250	2/28	34	12.8	13.6	
ummingbird Springs		Jarbidge	8870	3/4	76	23.2	27.4	19.5
daho City Townsite	5	Boise	4000	2/28	17	6.1	8.8	
ndian Grove		Raft	7560	3/6	40	16.5	9.7	
ndian Meadows		Teton	8240	3/3	111	41.6	44.4	30.9
ron Bog		Big Lost	7650	3/7	60	18.8	11.0	12.8
ron Mine Creek		Fish Creek	6300	3/1	55	14.7	9.7	9.9
rving Creek		Medicine Lodge	7035	3/3	30	7.4	3.9	5.2
sland Park		Henrys Fork	6290	2/25	57	18.3	16.7	15.1
ackpine Creek		Teton	7350	3/3	68	23.0	23.2	19.69
ackson Peak		Boise	7070	2/28	94	33.0	30.8	27.3
ohnson Creek		Blackfoot	6730	2/28	39	10.8	13.1	
ellogg Peak (A)		Coeur d'Alene	5560	2/27	66	25.7	27.3	28.2
ilgore		Camas Creek	6320	2/28	52	14.6	10.4	10.6
it Carson Pasture		Selway	4950	2/24	22	5.2	11.7	
ake Fork		Payette	5290	2/25	51	16.3	14.8	14.6
		Salmon Falls					6.6	
angford Flat Creek			5980 7630	3/4 2/24	18 87	5.0 31.2	34.0	28.6
atham Springs		Henrys Fork	7630					20.0
ava Creek		Willow	7350	3/3	51	16.9	20.8	
eadbelt		Big Lost	6700	3/7	45	14.4	6.4	8.6
eatherman Pass		Pahsimeroi	9860	3/3	71	23.3	20.3	20.2
emhi Pass	(Mt)	Beaverhead	7480	2/26	26	5.2	8.8	8.1
emhi Ridge	(Mt)	Beaverhead	8100	2/26	31	6.4	10.8	8.9
iberty Spring		Mink	8600	2/23	89	32.5	46.9	32.7
ittle Beaver		Montpelier	6970	3/2	44	12.4	18.5	14.0
ittle Camas Flat		Boise	4940	2/26	27	8.9	10.9	5.9*
ogger Springs		Raft	8120	3/6	57	22.6	15.8	
olo Pass		Lochsa	5240	3/1	59	19.1	31.8	27.5
ookout		Coeur d'Alene	5140	2/28	80	29.0	30.6	31.0
ost Garfield		Little Lost	6600	3/3	22	6.0	4.8	3.7
ost Horse	(Mt)	Bitterroot	5940	2/25	68	24.0		
ost Horse ost Lake	(-10)	Clearwater	6110	3/1	132	41.4	49.7	50.0
ost Lake ost-Wood Divide		Big Lost	7900	3/3	88	26.1	23.1	20.4
		_	6960	2/23	43	13.2	18.1	12.7
ower Elkhorn		Portneuf					15.5	12.2
ower Home Canyon		Montpelier	7640	3/1	39	10.2		
ower Pebble		Portneuf	5780	2/26	42	11.1	19.5	12.3
ower Sands Creek		Coeur d'Alene	3120	2/28	44	17.0	15.2	17.5
ucky Dog		Henrys Fork	6860	2/24	76	24.4	27.8	22.1
lagic Mountain		Rock Creek	6880	3/4	52	16.9	22.2	16.4
lascot Mine		Big Wood	7780	3/5	72	20.0	14.8	13.1
CRenolds Reservoi	r	Teton	6720	3/3	57	18.6	18.5	17.4
leadow Lake		Lemhi	9150	3/3	60	18.0	17.8	16.5
fill Creek Summit		Salmon	8800	3/3	69	21.9	26.5	20.3
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⁽b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average. (A) Aerial observation Water content estimated.

WONS			(THIS YEAR		PAST RECORD Water Content (inches)		
DRAINAGE BASIN : NAME & DR	ATNAGE	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conte	Average	
NAME & DR	AINAGE	Clevation		<u> </u>	1	Last real	Average	
Montpelier Creek	Montpelier	6540	3/2	26	7.7	10.0	7.5	
Moonshine	Little Lost	7440	3/3	44	11.8	10.1	9.3	
Moores Creek Summit	Boise	6100	2/28	100	35.4	31.5	28.6	
Moose Creek	N.F. Salmon	6200	2/25	54	16.8	19.8	15.6	
Morgan Creek	Salmon	7600	3/3	47	13.4	14.7	12.8	
Moscow Mountain	Palouse	4410	2/24	48	15.6	16.8	15.6	
Mosquito Ridge	Coeur d'Alene	5200	2/27	115	40.4	38.3	34.6	
Mount Baldy	Big Wood	8920	2/25	75 60	22.5	23.2	18.4	
Mud Creek Mud Flat	Willow	7100 5730	3/3 2/24	69 27	21.5	23.6		
Muldoon	Owyhee Little Wood	6320	3/2	45	7.2 11.8	9.0 5.1	6.0* 7.6	
Wez Perce Pass (Mt)	Bitterroot	6570	2/24	38	11.7	19.5	15.7	
One Mile Summit	Raft	7330	3/6	24	6.2	4.3	6.1	
Oxford Mountain	Malad	6800	2/23	30	8.4	11.6	9.4	
Oxford Spring	Malad	6740	2/23	34	9.5	12.8		
Packsaddle Spring	Teton	8200	3/3	83	29.5	32.7		
Pebble Creek	Portneuf	6550	2/26	51	14.5	18.5	14.5	
Phillips Bench (Wy)	Teton	8200	2/28	81	23.3	34.7	23.2*	
Pierce Ranger Sta.	Clearwater	3080	2/24	19	6.0	11.7	10.9	
Pine Creek Pass	Teton	6810	2/28	50	14.7	20.0	15.6	
Placer Creek	Weiser	5860	3/2	62	20.0	18.8	16.5	
Pole Creek Ranger Sta.	Jarbidge	8360	3/4	62	20.0	23.2	18.6	
Prairie	Boise	4800	2/27	18	6.1	7.0	5.8	
Redfish Lake Flat	Salmon	6560	2/28	47	13.0	13.4	8.9*	
Road Creek	Boise	5380	2/28	30	9.6		10.4*	
Rock Flat Summit	Payette	5310	2/28	67	21.8	16.2	16.7	
Roland Summit	St. Joe	5120	2/27	71	31.5	30.0	31.3	
Sage Creek Saddle	Hayden	4080	2/24	43	16.1	17.2		
Savage Pass	Lochsa	6170	3/1	60	19.6	29.0	24.1	
Sawmill Canyon	Little Lost	7000	3/3	33	9.8	8.4	6.9	
Sawtell Mountain	Henrys Fork	8720	2/25	97	36.6	33.6	28.4*	
Schwartz Lake	Lemhi	8540	3/3	40	11.2	15.9	10.8*	
Schweitzer Basin	Pend Oreille	6090	3/1	131	49.8	46.9		
Schweitzer Bowl	Pend Oreille	4800	3/1	90	34.5	31.2	28.1*	
Schweitzer Ridge	Pend Oreille	6200	3/1	123	49.0	44.6	40.3*	
Secesh Summit	Payette	6520	2/25	101	36.1	41.2	30.9*	
Sedgwick Peak	Portneuf	7850	2/26	49	16.2	24.6		
Seventy-Six Creek	Jarbidge-Bruneau	7100	3/4	45	14.5	17.5	10.4	
Shanghai Summit	Clearwater	4570	3/1	58	18.0	23.8	24.1	
Sheep Mountain	Willow	6570	3/3	45	14.5	16.0	12.5*	
Sherwin	St. Maries	3200	2/23	27	8.4	14.2	13.3	
Shoshone Basin	Salmon Falls	5810	3/4	16	5.6	5.9	5.3	
Silver City	Jordan-Owyhee	6400	2/26	53	18.4	16.8	13.7	
Skitwish Ridge	Coeur d'Alene	5110	2/25	73	30.6	28.5	1/ 0	
Slug Creek Divide	Blackfoot	7230	3/1	44	12.8	17.3	14.8	
Soldier Ranger Sta.	Big Wood	5740	2/26	55 4.4	17.8	12.5	11.5 12.7	
Somsen Ranch	Willow Creek	6840	2/28	44 54	12.0 18.9	16.3 15.4	11.6	
South Mountain	Jordan-Owyhee	6500	2/26 2/25	54 81	28.1	22.5	11.0	
Squaw Flat	Weiser Payette	6240 5900	2/25	96	37.9	39.6	31.9	
Squaw Meadow	~	6660	2/23	96 46	13.2	14.4	12.7	
State Line Stickney Mill	Teton Big Lost	7430	3/3	49	11.8	7.6	8.3	
Stickney Mill Strawberry Creek	Mink	5820	3/3	33	11.5	10.9	9.6	
Strawberry Greek Strawberry Mink Divide	Mink	6720	2/23	56	18.4	21.0	18.7	
Sublett	Raft	5950	3/6	33	14.6	14.0	10.1	
Sulphur Peak	Blackfoot	7070	2/28	43	12.8	15.3		
Sulphur Peak Sunset (A)	Coeur d'Alene	5540	2/27	101	35.5	39.1	32.6*	
Swede Peak	Little Wood	7640	3/2	86	23.7	17.2	15.2	
Targhee Pass	Henrys Fork	6980	2/25	47	14.4	10.7	13.6*	
Telfer Ranch	Fish Creek	5840	3/1	43	12.3	7.3	7.8	
Teton Pass W.S. (Wy)	Teton	7740	3/2	79	23.7	29.6	21.0%	
Tex Creek	Willow	6650	3/3	33	10.1	11.5	8.5*	
Frail Creek (Mt)	Beaverhead	7090	2/26	25	4.3			
Trinity Mountain	Boise	7770	3/3	129	45.6	45.3	38.2	
Tripod Summit	Payette	5260	2/26	67	22.1	18.7	16.7	
Twelve Mile Creek (Mt)	Bitterroot	5600	2/25	49	16.8			
Twin Peaks	Salmon	9190	3/3	69	21.6	23.6	23.0%	
Twin Lakes (Mt)	Bitterroot	6510	2/25	82	29.6			
Twitchell Canyon	Blackfoot	6300	3/1	51	15.0	15.8		
Upper Elkhorn	Portneuf	7140	2/23	54	17.8	20.3	16.4%	
Upper Home Canyon	Montpelier	8560	3/2	63	19.1	28.1	19.9	
	Henrys Fork	6680	2/25	48	16.0	14.6	15.6	
Valley View	nemrys rock	0000	2123	10			12.9%	

⁽b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average. (A) Aerial observation Water content estimated.

MOMS		THIS YEAR	Y	PAST RECORD			
DRAINAGE BASIN and or SNOW COURSE NAME & DRAINAGE Elevation		Date	Snow Depth	Water Content	Water Content (inches)		
		Elevation	of Survey	(Inches)	(Inches)	Last Year	Average
Vienna Mine	Salmon	8960	3/3	111	36.0	42.7	32.1
Webber Creek	Medicine Lodge	6700	3/3	23	5.6	4.4	
West Branch	Weiser	5560	2/28	80	26.4	25.0	
West Twin	Palouse	4220	2/24	16	6.2	9.8	9.4
Wet Creek Summit	Little Lost	7680	2/27	42	13.7	9.7	10.7
Whiskey Flat	Montpelier	6960	3/2	32	8.6	12.6	8.5
White Elephant	Henrys Fork	7710	2/25	69	23.6	25.3	18.4*
Wildhorse Divide	Portneuf	6490	2/27	58	19.8	23.2	
Williams Creek Summit	Salmon	7990	3/2	35	9.8	11.6	11.1
Willow Flat	Cub	6070	2/23	42	12.9	14.9	13.9
Wilson Creek (Nv)	Salmon Falls	7500	3/4	43	14.0	13.0	11.0
Wood Canyon Divide	Blackfoot	7450	2/28	46	14.3	19.7	
Worm Creek	Cub	6620	2/23	49	16.0	16.9	

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Data Site Name	Drainage	Date	Pillow Snow Water Equivalent (inches)	Precipitation Water Year (Accumulative) (inches)
Data of the Ivame	Diamage		(Thenes)	(Thenes)
Atlanta Summit	Boise	3/1	30.8	37.0
Banner Summit	Payette	3/1	27.9	31.4
Bear Basin	Little Salmon	3/1	23.8	27.2
Bear Canyon	Big Lost	3/1	19.2	24.6
Bear Mountain	Clark Fork	3/1	Not Available	65.4 29.2
Bear Saddle	Mann Creek	3/1 3/1	32.5 24.4	23.3
Bennett Mountain Big Creek Summit	Canyon Creek Salmon	3/1	34.8	25.7
Bostetter Ranger Sta.	Trapper	3/1	27.1	11.6
Cozy Cove	Deadwood	3/1	23.6	26.6
Crab Creek	Camas-Beaver	3/1	22.1	20.8
Deadwood Summit	Deadwood	3/1	52.4	47.2
Dollarhide Summit	Big Wood	3/1	28.1	30.8
Elk Butte	Clearwater	3/1	33.5	36.4
Emigrant Summit	Bear	3/1	25.5	22.9
Franklin Basin	Cub	3/1	20.9	22.3
Galena	Big Wood	3/1	20.4	20.7
Galena Summit	Big Wood	3/1	20.3	23.0
Garfield Ranger Sta.	Little Wood	3/1	16.2	17.5
Giveout	Montpelier	3/1	10.4	9.1
Graham Guard Sta.	Boise	3/1	20.4	24.1
Hilts Creek	Little Lost	3/1	15.2	14.7
Howell Canyon	Marsh Creek	3/1	23.2	25.5
Humboldt Gulch	Coeur d'Alene	3/1	11.5	33.5
Hyndman	Big Wood	3/1	16.3	18.1 20.9
Island Park	Henrys Fork	3/1 3/1	17.9 31.7	34.9
Jackson Peak Lolo Pass	Boise Lochsa	3/1	20.8	28.5
Lookout	Coeur d'Alene	3/1	28.9	35.5
Lost Lake	Clearwater	3/1	51.9	49.4
Lost-Wood Divide	Big Lost	3/1	24.4	31.2
Magic Mountain	Rock Creek	3/1	19.5	19.8
Meadow Lake	Lemhi	3/1	17.1	16.2
Mill Creek Summit	Salmon	3/1	18.7	19.3
Moonshine	Little Lost	3/1	11.7	13.2
Moores Creek Summit	Boise	3/1	38.0	35.2
Moose Creek	North Fork Salmon	3/1	17.1	17.9
Morgan Creek	Salmon	3/1	13.8	14.9
Mosquito Ridge	Coeur d'Alene	3/1	37.7	41.1
Mountain Meadows	Selway	3/1	13.3	17.9
Mud Flat	Owyhee	3/1	Not Available	Not Available 16.0
Oxford Spring	Malad	3/1	10.7 Not Available	14.9
Prairie	Boise	3/1 3/1	20.7	23.6
Savage Pass	Lochsa Pend Oreille	3/1	59.3	35.9
Schweitzer Basin Secesh Summit	Payette	3/1	39.3	37.5
Shanghai Summit	Clearwater	3/1	23.1	31.6
Sheep Mountain	Willow	3/1	Not Available	15.6
Sherwin	St. Maries	3/1	8.4	26.0
Slug Creek Divide	Blackfoot	3/1	14.7	16.0
Somsen Ranch	Willow Creek	3/1	11.5	13.2
South Mountain	Jordan-Owyhee	3/1	26.9	22.8
Squaw Flat	Weiser	3/1	27.6	32.0
Stickney Mill	Big Lost	3/1	10.5	11.3
Sunset	Coeur d'Alene	3/1	30.8	27.8
Swede Peak	Little Wood	3/1	20.6	22.3
Trinity Mountain	Boise	3/1	41.3	43.5
Vienna Mine	Salmon	3/1	35.9	35.1
West Branch	Weiser	3/1	28.4	32.0 31.2
White Elephant	Henrys Fork	3/1 3/1	27.7 11.3	15.5
Wildhorse Divide	Portneuf			

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

- U. S. Army Engineers
- U. S. Department of Agriculture Forest Service ESCS Crop Reporting Service SEA Agricultural Research
- U. S. Department of Commerce NOAA, National Weather Service
- U. S. Department of the Interior
 Bonneville Power Administration
 Water and Power Resources Service
 Fish and Wildlife Service
 Water Resources Division, Geological Survey
 National Park Service
 Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ROOM 345

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